

## 2002 –2012 Occupational Projections

Occupational Title	Minimum Education Requirements	** Total Annual Openings	1 <sup>st</sup> Qtr. 2005 Hourly Wage Range
First-Line Supervisors/Managers of Production and Operating Workers	Work Exp. in a related occ.	300	\$ 15.74 - 29.00
Helpers--Production Workers	Short-term Tng. & Exp.	210	\$ 7.56 - 13.03
Packaging and Filling Machine Operators and Tenders	Short-term Tng. & Exp.	170	7.59 - 13.46
Refuse and Recyclable Material Collectors	Short-term Tng. & Exp.	100	7.64 - 12.18
Industrial Truck and Tractor Operators	Short-term Tng. & Exp.	200	9.67 - 13.83
Team Assemblers	Mod.-term Tng. & Exp.	140	\$ 8.93 - 15.34
Hazardous Materials Removal Workers	Mod.-term Tng. & Exp.	60	10.82 - 15.28
Inspectors, Testers, Sorters, Samplers, and Weighers	Mod.-term Tng. & Exp.	190	10.85 - 21.48
Structural Metal Fabricators and Fitters	Mod.-term Tng. & Exp.	130	12.02 - 17.49
Chemical Equipment Operators and Tenders	Mod.-term Tng. & Exp.	80	20.90 - 26.58
Maintenance and Repair Workers, General	Long-term Tng. & Exp.	700	\$ 9.86 - 17.12
Water and Liquid Waste Treatment Plant and System Operators	Long-term Tng. & Exp.	110	10.28 - 15.41
Maintenance Workers, Machinery	Long-term Tng. & Exp.	50	10.30 - 16.37
Machinists	Long-term Tng. & Exp.	220	13.52 - 21.18
Millwrights	Long-term Tng. & Exp.	70	14.74 - 20.66
Industrial Machinery Mechanics	Long-term Tng. & Exp.	190	15.07 - 22.62
Welders, Cutters, Solderers, and Brazers	Postsecondary voc.	600	\$ 13.64 - 19.12
Electrical and Electronics Installers and Repairers, Transportation Equipment	Postsecondary voc.	20	16.39 - 24.31
Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary voc.	40	16.75 - 25.37
Electrical and Electronic Engineering Technicians	Associate degree	60	\$ 18.06 - 27.92
Purchasing Agents, Except Wholesale, Retail, and Farm Products	Bachelor's degree	100	\$ 14.70 - 25.39
Industrial Production Managers	Bachelor's degree	50	24.59 - 45.79

\*\*Total Annual Openings = New job growth plus replacement needs due to turnover.

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FEBRUARY, 2006

## Occupations in the Spotlight



## Welders, Cutters, Solderers, and Brazers



Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

- ◆ Certificate is available
- ◆ Knowledge of machines and tools
- ◆ Knowledge of raw materials, production processes, quality control, and other techniques for manufacturing and distribution of goods
- ◆ Knowledge of materials, methods, and tools involved in construction or repair of structures and roads

## Required WorkKeys® Scores:

AM 3 LI 4 RI 4

## Cabinetmakers and Bench Carpenters



Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines.

- ◆ Knowledge of materials, methods, and the tools involved in construction or repair of structures and roads
- ◆ Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models

## Required WorkKeys® Scores:

AM 3 LI 1 RI 3

AM = Applied Mathematics

LI = Locating Information

RI = Reading for Information

**WorkKeys® assessments** give students and workers reliable, relevant information about workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help students make better career and educational decisions. Louisiana uses three WorkKeys® assessments as the foundation for awarding career readiness certificates. For more information, contact the Workforce Education and Training Office at the Louisiana Board of Regents (225-342-4253).

LOUISIANA  
Opportunities in

***This diverse Career Cluster prepares learners for careers in planning, managing, and performing the processing of materials into intermediate or final products. Careers also include related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.***

## FASTEST GROWING JOBS

- 👤 Hazardous Materials Removal Workers
- 👤 Computer-Controlled Machine Tool Operators, Metal and Plastic
- 👤 Painters, Transportation Equipment
- 👤 Water and Liquid Waste Treatment Plant and System Operators
- 👤 Engine and Other Machine Assemblers

Louisiana Department of Labor  
Office of Occupational Information Services  
P.O. Box 94094  
Baton Rouge, LA 70804-9094  
Phone (225) 342-3141  
TDD Toll Free (866) 277-9317  
FAX (225) 342-9192

**"This document was produced as a collaborative endeavor between the Louisiana Departments of Labor, Education and the Board of Regents".**

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Auxiliary Aids and Services are available upon request to  
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## Reference Center:

Louisiana Department of Labor -  
<http://www.LAWWORKS.net>

Occupational Information – go to Career Services  
<http://lavos.laworks.net>

Louisiana Employment Outlook -  
[http://www.laworks.net/qm\\_employmentprojections.asp](http://www.laworks.net/qm_employmentprojections.asp)

Louisiana Technical Colleges -  
<http://www.ltc.edu/home.htm>

Financial Aid  
<http://www.osfa.state.la.us/>

Louisiana Board of Regents-  
<http://www.regents.state.la.us>

Louisiana Community & Technical College System  
<http://www.lctcs.net>

ACT  
<http://www.act.org>

National Career Clusters  
<http://www.careerclusters.org>



*This brochure is designed to provide assistance to students as they prepare to make decisions about course selection, their career options and future plans.*

**The Career Options Law (Act 1124)** mandates that all high school students have a five-year educational plan and that all high schools offer career majors/areas of concentrations. It is the intent of the law that students have a focus while in school to help make learning more relevant and meaningful.

Students in 6<sup>th</sup> – 8<sup>th</sup> grades must complete at least six career awareness activities which help students to develop a five-year educational plan. It also requires school systems to offer areas of concentrations to address students' interests.

### The Five-Year Educational Plan

Students must complete this plan at the end of their 8<sup>th</sup> grade year with input from their counselor and/or advisor and family. This plan must be reviewed and revised on an annual basis throughout high school with student, parent and counselor/advisor signatures each year.

## Manufacturing Cluster

### High School Areas of Concentrations (2006 – 2007)

**Diploma Endorsements** will help provide for students the preparation necessary for college and/or a career. By the same token employers will be getting better prepared workers, and higher education institutions will have students better prepared for success in their post secondary institutions. These endorsements help students to maximize their 11<sup>th</sup> and 12<sup>th</sup> grades, encourage more students to take Advanced Placement courses, encourage students to take advantage of career and technical education courses and opportunities, as well as hold high schools accountable for what is taught during the 11<sup>th</sup> and 12<sup>th</sup> grades. Students can complete the necessary requirements for two different diploma endorsements:

- Academic Endorsement
- Career and Technical Endorsement

Please see your guidance counselor for further details.

**The Louisiana WorkReady!** is a portable credential that signifies to an employer that an individual has achieved acceptable levels in the foundation skills necessary for success in the workplace and gives Louisiana citizens a “key to work”. Issued by the Workforce Commission, the Certificate is a tool that helps employers identify qualified candidates to fill the openings they have in their businesses.

People who attain the Certificate, which will display their workplace readiness skill levels, will have an advantage as they pursue their career goals. The Certificate increases the likelihood that business will receive a well-trained, highly skilled worker and that education will prepare students for available jobs. For more information, contact the Workforce Commission at 225-342-2094 or the Board of Regents at 225-342-4253.

**Career Cluster**  
Manufacturing

### Areas of Concentrations

Industrial Operations  
Jewelry Manufacturing  
Lab Technology  
Petro Chemical  
Welding

### Post Secondary Programs

Industrial Operations  
Lab Technology  
Petro Chemical  
Welding

### Training Programs Related Certification(s):

NCCR Certification – Welding  
Welding – Level 1

For more information on course selection visit our web site:

<http://www.doe.state.la.us/ide/curriculum/home.html>

## TOP EMPLOYING INDUSTRIES

Industry (based on North American Classification System NAICS)	2002	2012	Number of New Jobs	Percent Change
Employment Services	33,710	47,610	13,900	41.2%
Ship and Boat Building	14,895	16,130	1,235	8.3%
Agriculture, Construction, and Mining Machinery Manufacturing	7,840	9,660	1,847	23.5%